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(54) Title: METHOD FOR PROVIDING A COATING ON THE SURFACES OF A PRODUCT WITH AN OPEN CELL STRUCTURE THROUGHOUT ITS STRUCTURE AND USE OF SUCH A METHOD

(57) Abstract: The invention relates on the one hand to a method for providing a coating on the surfaces of a product with an open cell structure throughout its structure, in which said coating is provided by means of a plasma polymerisation process. The foam have to be prepared for the plasma polymerisation processes in respect to the specific process. Polymerisation is performed inside the open and semi-open cell structures in a qualitative and homogenous way. On the other hand, the invention relates to the use of a method as described above as a hydrophobe, oleophobe, flame retardant and/or barrier coating on the surfaces of an open cell polymer throughout its polymer structure.

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